

controlling a fuel flow from the gas valve to the burner in response to the control signal;

controlling production of sound by the system in response to the control signal; and

controlling production of scent by the scent delivery system in response to the control signal.

50. The method of claim 49, further comprising synchronizing control of the fuel flow, production of sound, and production of scent.

51. A method of thermostatically controlling a flame, the method comprising the steps of:

providing a first room temperature measurement;

setting a target room temperature;

generating a flame having a first flame amplitude configured to provide heat sufficient to attain the target room temperature;

providing a second room temperature measurement;

determining a difference between the target room temperature and the second room temperature measurement; and

altering the first flame amplitude to a second flame amplitude when the determined difference is within a predetermined temperature range of the target room temperature.

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52. A flame and sound system configured for use with a heating appliance, the system comprising:

an input device configured for selection of at least one user preference;

a controller system configured to generate a flame control signal and a scent control signal in response to the selected user preference;

a flame modulator configured to modulate a flame in response to the flame control signal; and

a scent generating device configured to generate a scent in response to the scent control signal.

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53 <sup>52</sup>/<sub>4</sub>. The system of claim ~~53~~<sup>52</sup>, wherein the flame control signal and scent control signal are synchronized.